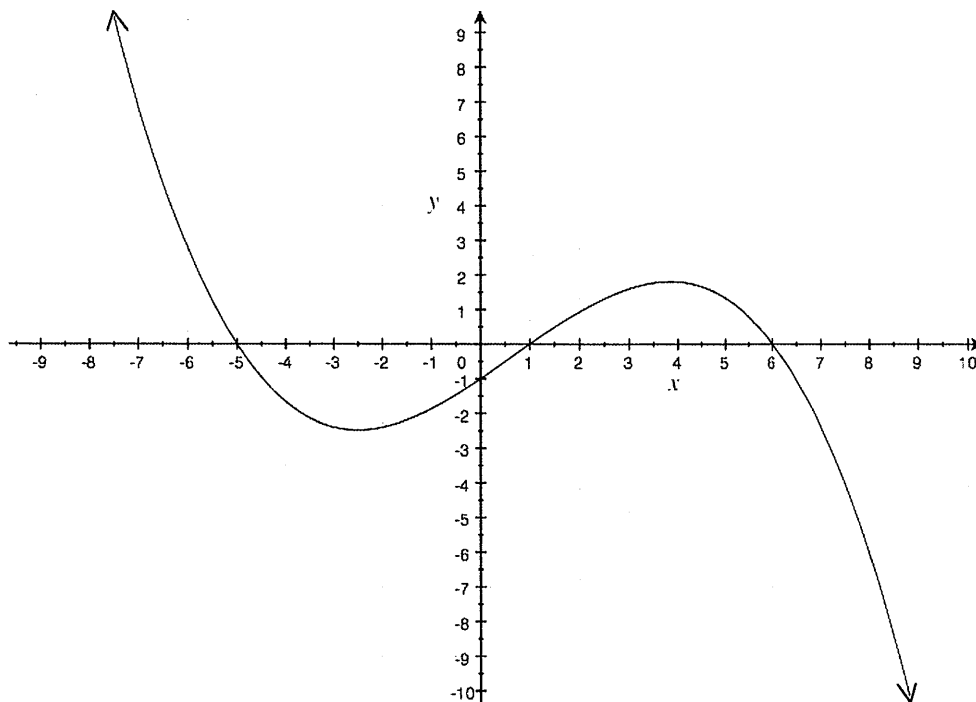
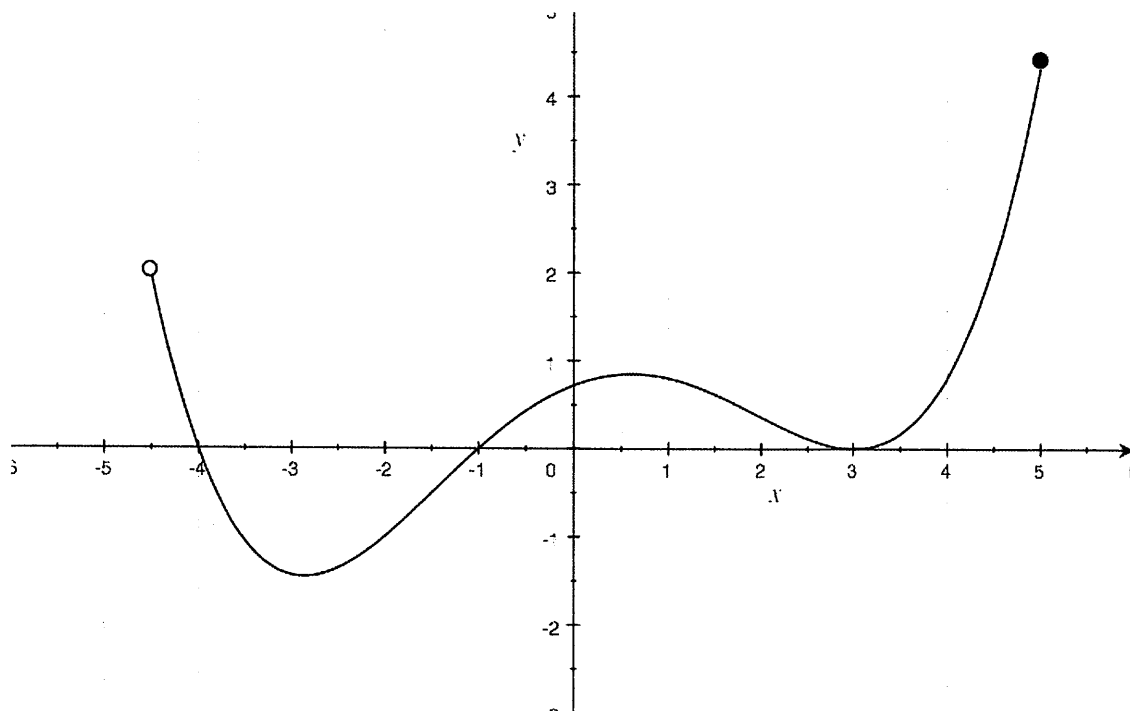


Representational Fluency: Graphs

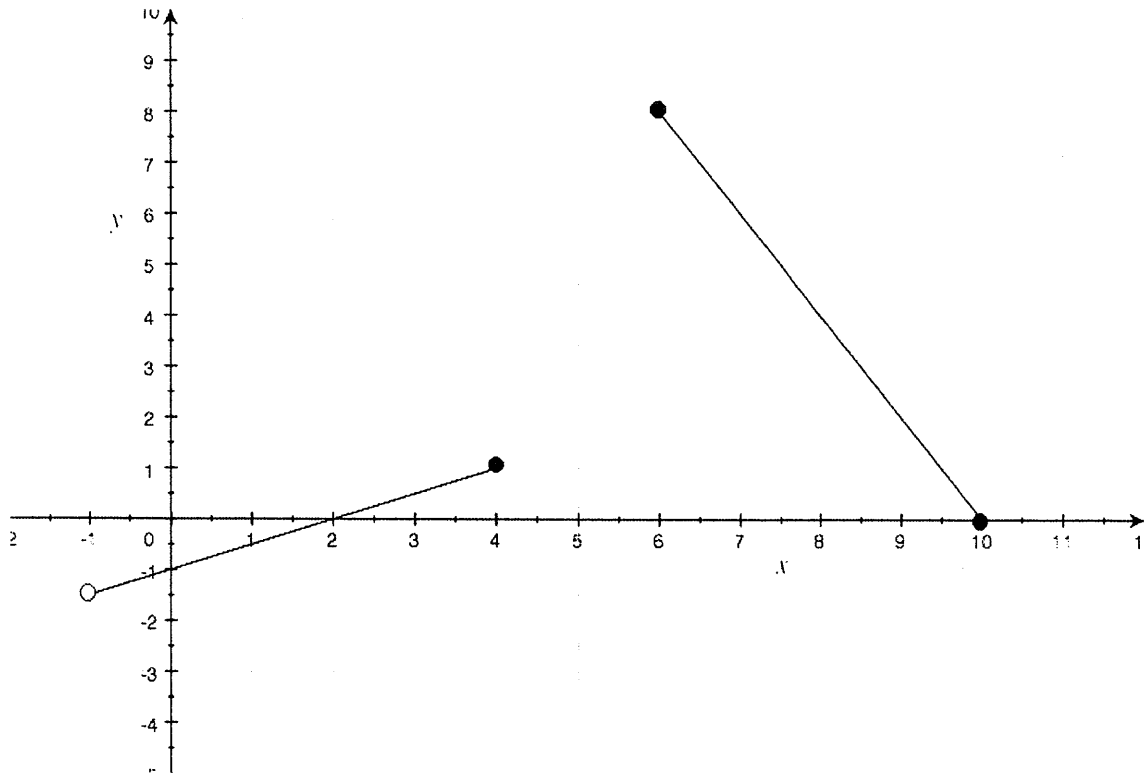
Use each graph of $f(x)$ to answer the questions. For some questions, you may need to estimate.



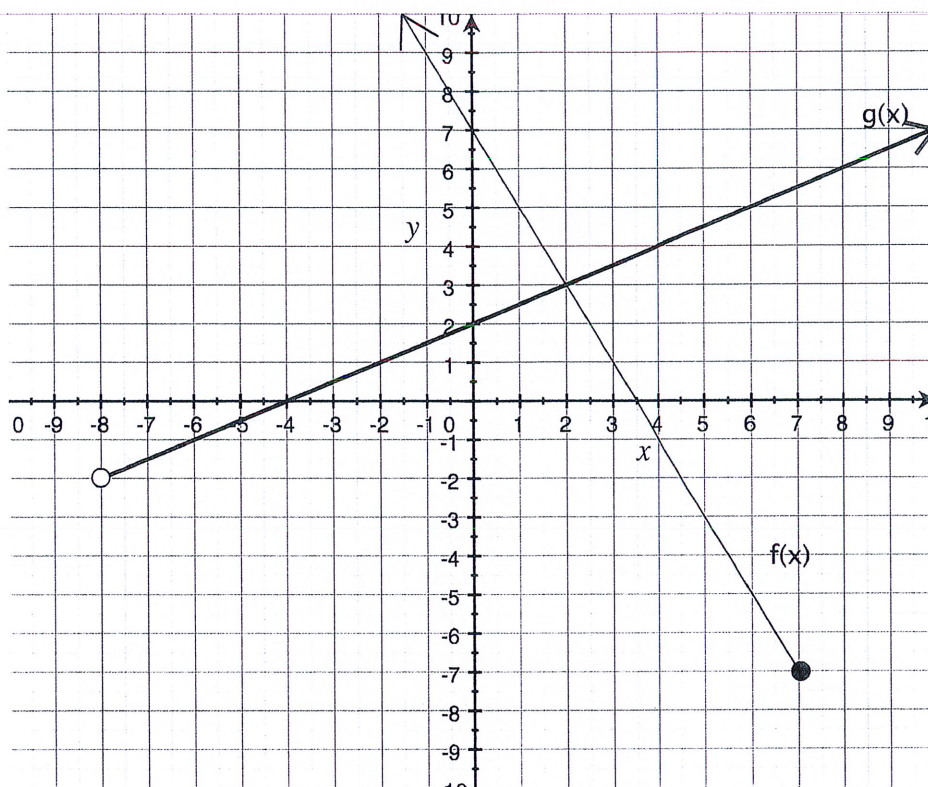
- 1) $f(0) =$ $f(1) =$ $f(-6) =$ $f(8) =$
- 2) Is $f(-7.3)$ positive or negative?
- 3) True or false: $f(9) > 0$
- 4) For what values of x does $f(x) = 0$?
- 5) What is the value of f when $x = 0$?
- 6) Over what **intervals** is $f(x) > 0$?
- 7) Over what **intervals** is $f(x) \leq 0$?
- 8) How many times do each of the following lines intersect the graph of f ?
 - a. $y = 3$
 - b. $y = -1$
 - c. $x = 4$
- 9) For what values of x does:
 - a. $f(x) = 1$
 - b. $f(x) = 7$
 - c. $f(x) = -6$



- 1) $f(-4) =$ $f(0) =$ $f(5) =$ $f(f(4.5)) =$
- 2) Is each one positive or negative? $f(-3)$ $f(-0.5)$ $f(-4.1)$
- 3) True or false: $f(3) > 0$
- 4) Over what **intervals** is $f(x) \geq 0$?
- 5) Over what **intervals** is $f(x) > 0$?
- 6) Over what **intervals** is $f(x) < 0$?
- 7) How many times do each of the following lines intersect the graph of f ?
 - a. $y = 1$ b. $y = 2$ c. $y = -2$ d. $y = \frac{1}{2}$
- 8) For what values of x does:
 - b. $f(x) = 0$ b. $f(x) = 2$ c. $f(x) = -1$



- 1) Find the domain and range.
- 2) Find $f(2)$, $f(4)$, and $f(f(6.5))$.
- 3) Over what interval is $f(x) < 0$?
- 4) Over what intervals is $f(x) \geq 0$?
- 5) How many times does the line $y = 1$ intersect $f(x)$?
- 6) What is the value of $f(x)$ when $x = 9$?
- 7) For what values of x does $f(x) = 0$?



1) What is the domain of $f(x)$?

2) What is the domain of $g(x)$?

3) What is the range of $f(x)$?

4) What is the range of $g(x)$?

5) $g(5) + f(5) =$

6) $f(2) \times g(2) =$

7) $|f(6)| =$

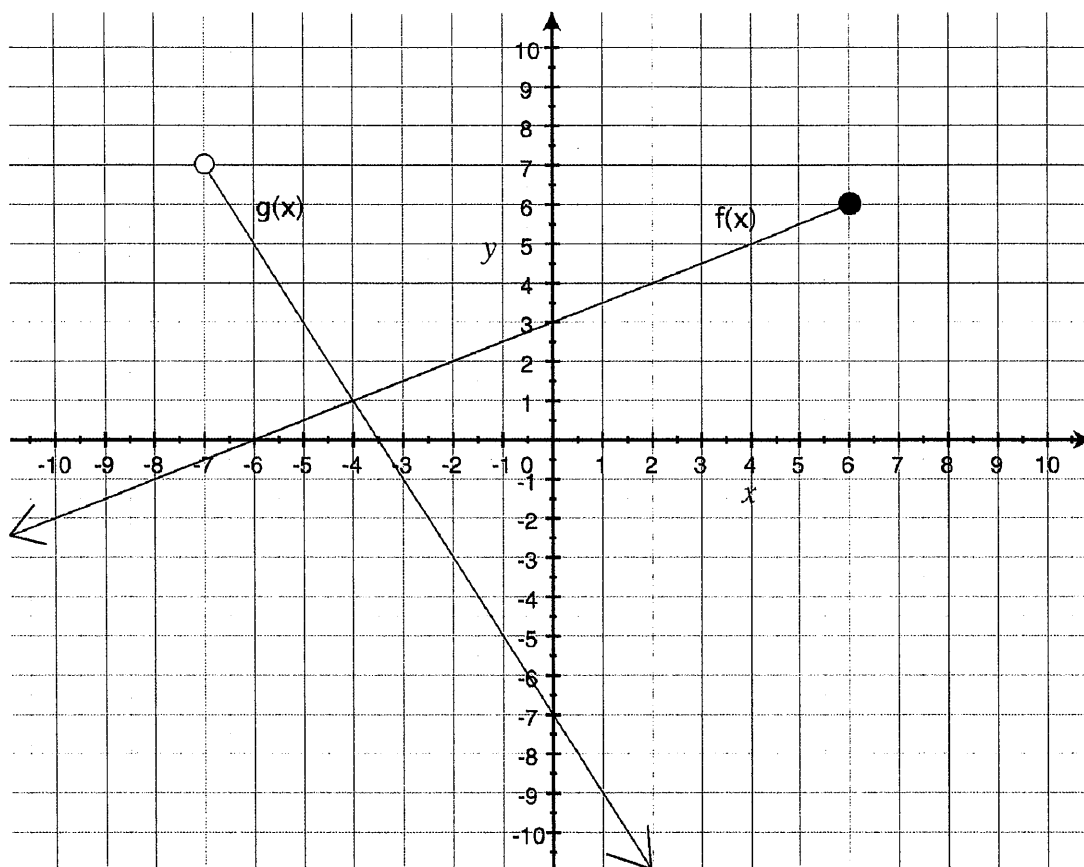
8) $g(|-6|) =$

9) $|g(-6)| - |f(0)| =$

10) $f(3.5) \times g(3.5) =$

11) $g(4) - f(4) =$

12) $f(g(0)) =$



1) What is the domain of $f(x)$?

2) What is the domain of $g(x)$?

3) What is the range of $f(x)$?

4) What is the range of $g(x)$?

5) $g(-2) + f(-2) =$

6) $g(1) - f(1) =$

7) $|f(-8)| =$

8) $|g(0)| =$

9) $g(-5) + f(-5) =$

10) $f(-6) \times g(-6) =$

11) $(f \circ g)(-6) =$

12) $(g \circ f)(-6) =$

13) On the same coordinate plane above, make a graph of $|f(x)|$ and $|g(x)|$.

